

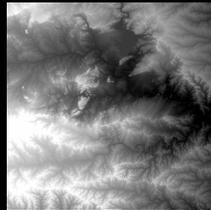
Advisory Committee on Water Information

Status report:
**Subcommittee on Spatial
Water Data**

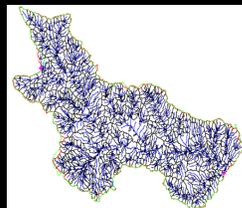
Reston, VA
May 16, 2001

Integration of key Spatial Water Datasets

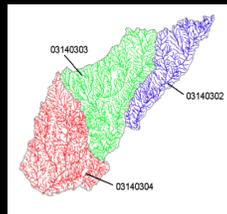
National Elevation Dataset



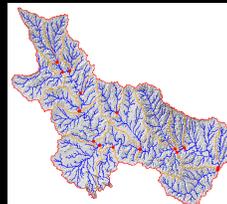
NED-Hydrology



National Hydrography Dataset

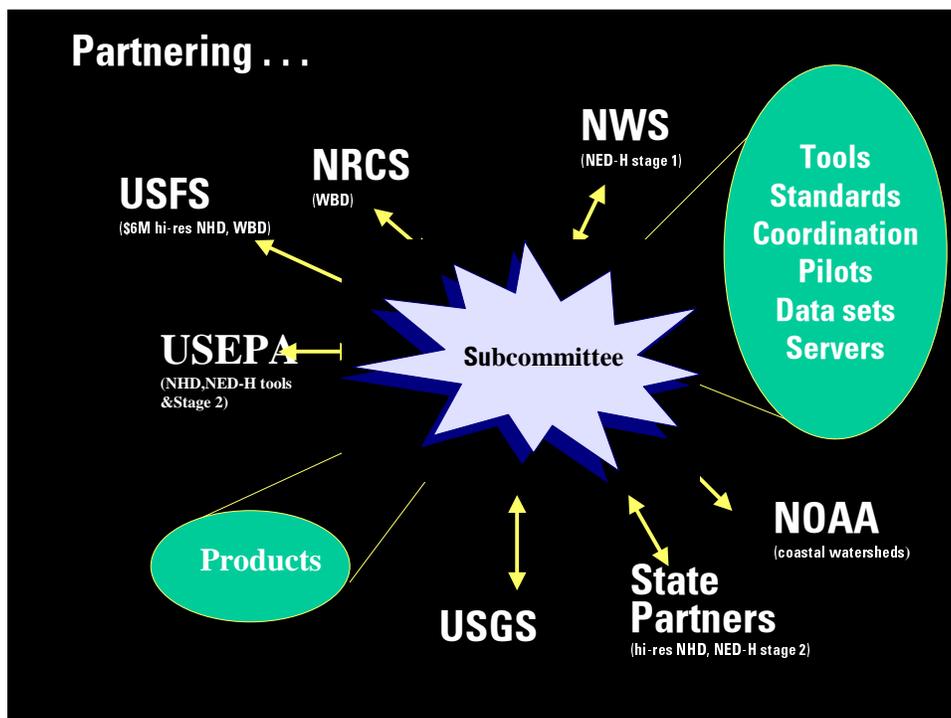


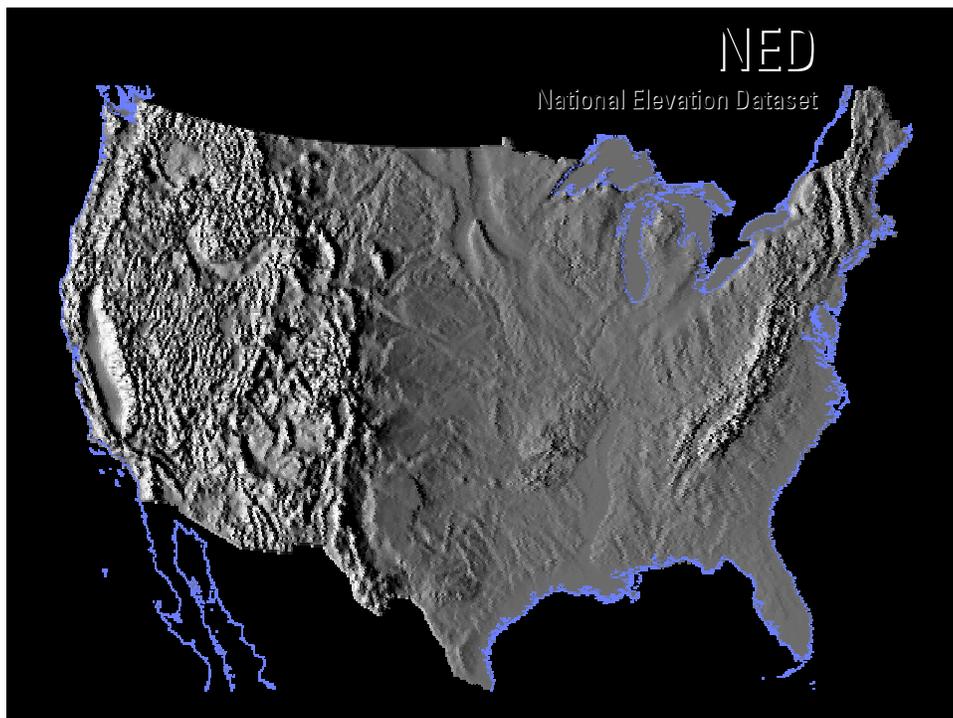
Watershed Boundary Dataset



Purpose:

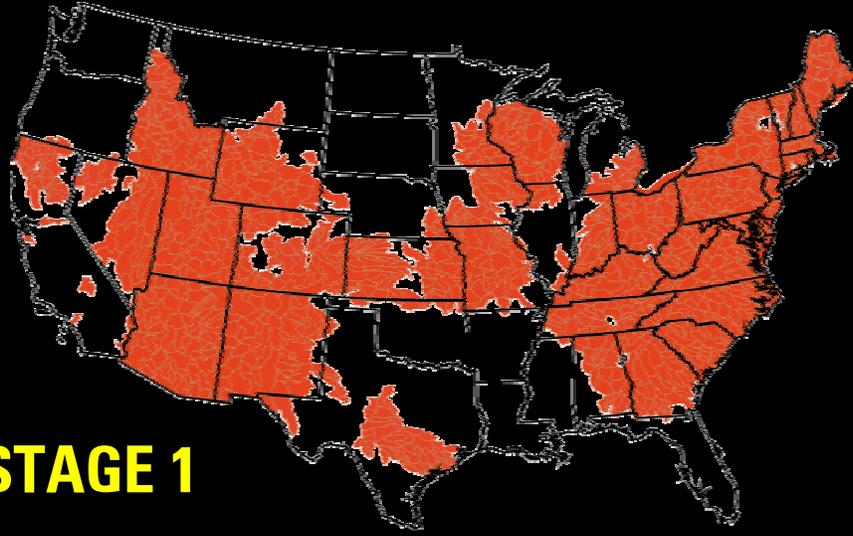
- **Nationally consistent** sources & methods
- Integrate **best-available data** for every area
- **Horizontal integration: seamless**
- **Vertical integration: QA** between data sets



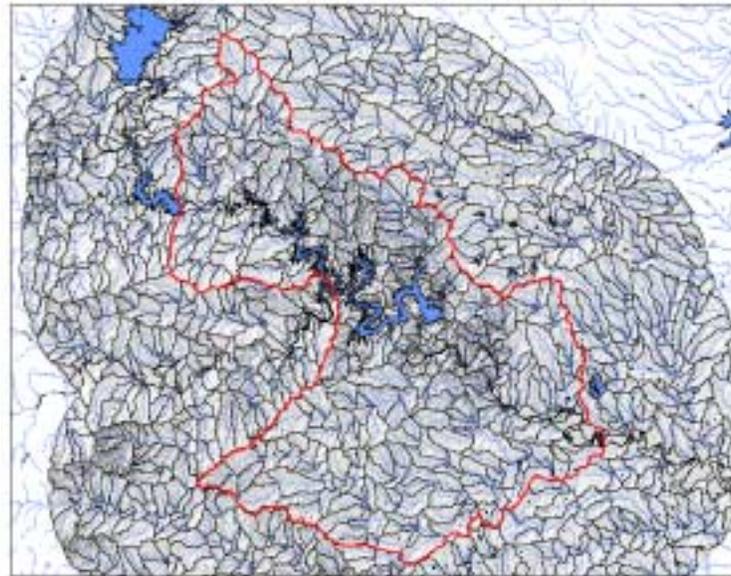


EDNA [alias NED-H]

STAGE 1



South Texas HUC 12090205

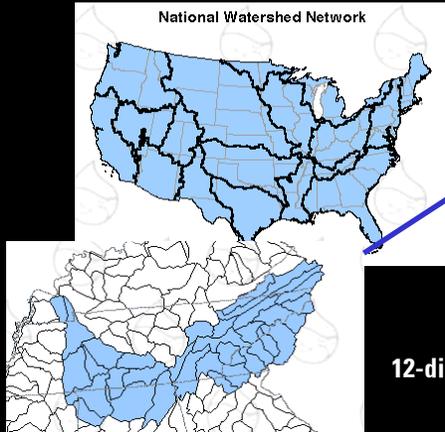


- Original HUC Boundary
- DLG Lakes
- DLG Streams
- Delineated Basins

5 0 5 10 Miles

Hydrologic Units

Where are we?



2-digit= 1st level = 22 regions

4-digit= 2nd level = 222 subregions

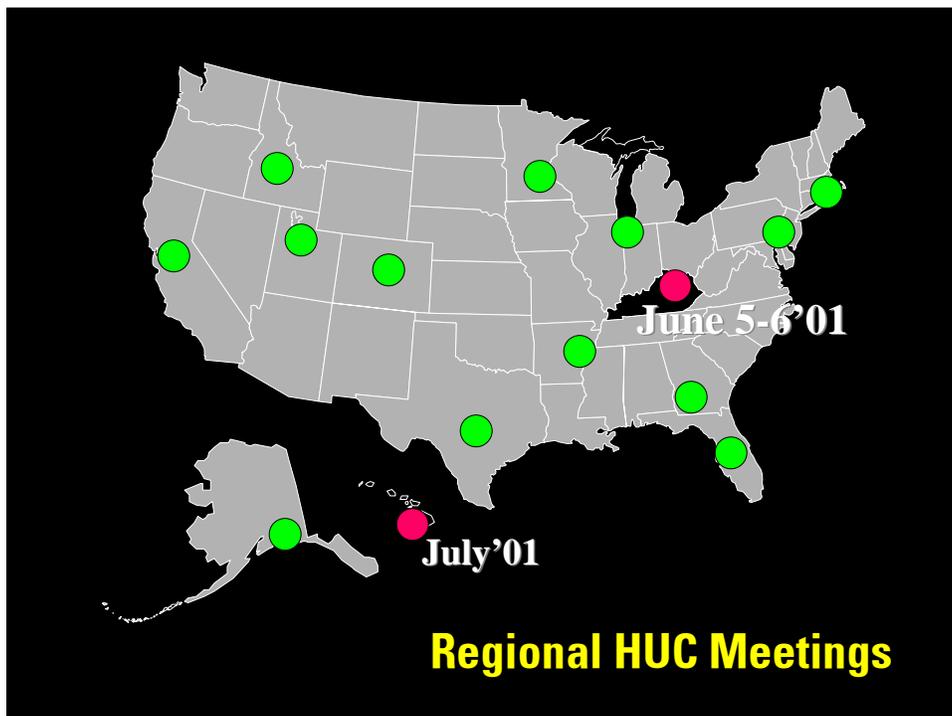
6-digit= 3rd level = 789 accounting

8-digit= 4th level = 2223 cataloging

new!

10-digit= 5th level = ~22,000 watersheds

12-digit= 6th level = ~160,000 subwatersheds



U.S. Forest Service Areas in Colorado



**Subcommittee
on Spatial
Water Data**

**Coastal Watersheds
Work Group**

**Guidelines
Work Group**

**FGDC
HUC Interagency
Guideline**

Current version can be found at

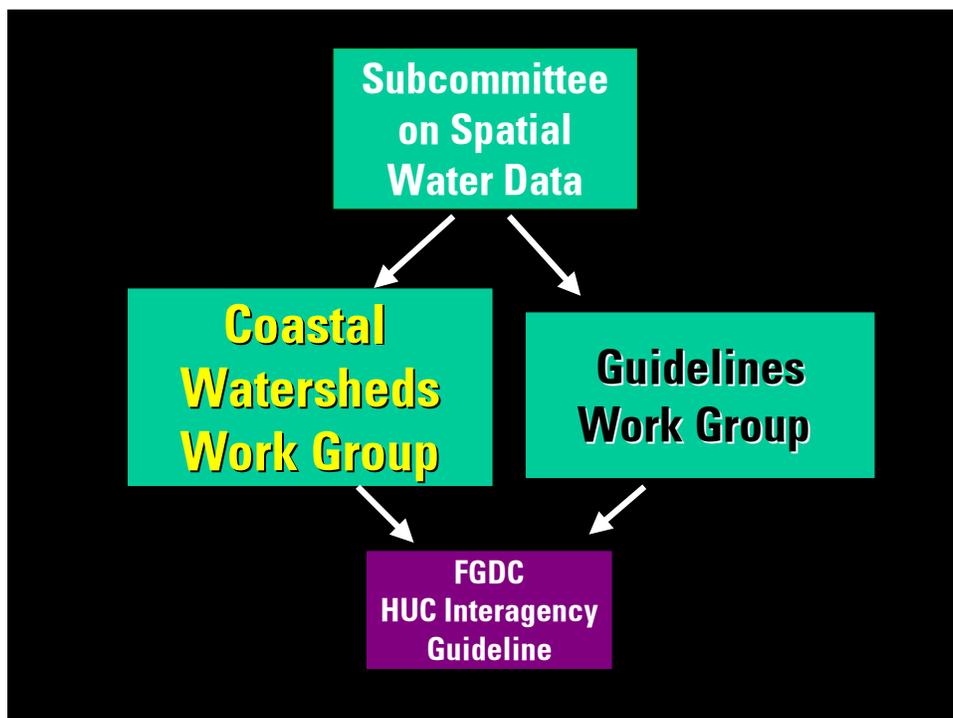
www.ftw.nrcs.usda.gov/huc_data.htm

DRAFT Attribute Scheme (PAT)

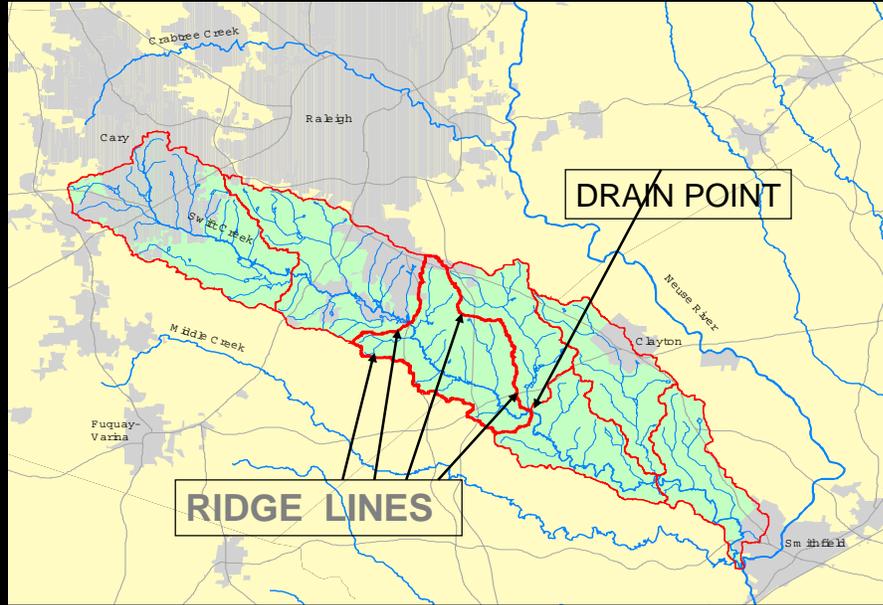
Item Name	Int. width	Type	Contents
HUC_8	8	C	
HUC_10	10	C	
HUC_12	12	C	
ACRES	4	B	
STATES	12	C	AR-MO-KS
NCONTRB_DA	4	B	(in acres)
DS_HUC	14	C	
NAME	80	C	(Lowest level)
HU_MOD	80	C	(karst, interbasin transfer, etc)

currently:
NRCS certification

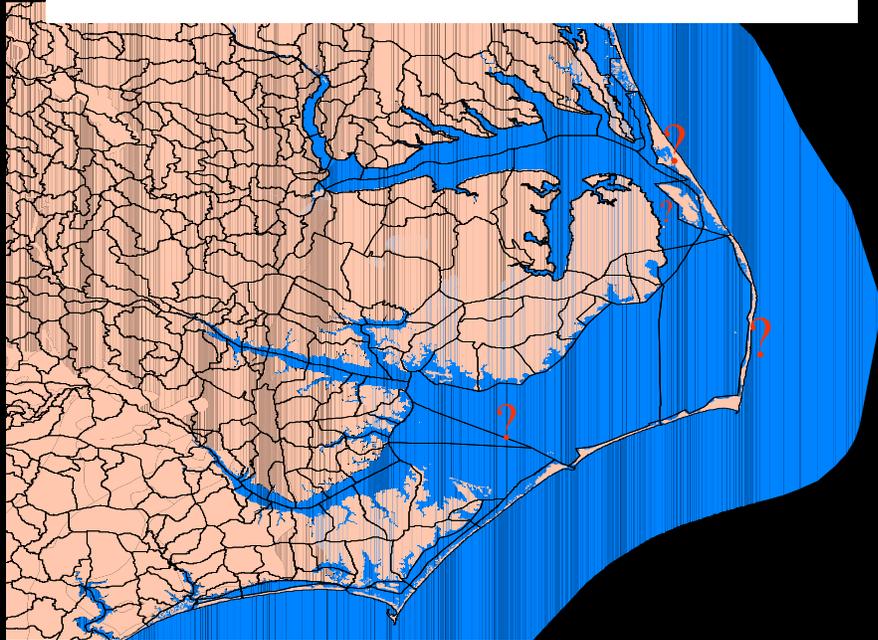
proposed:
Subcommittee review



Example of Mapping Criteria

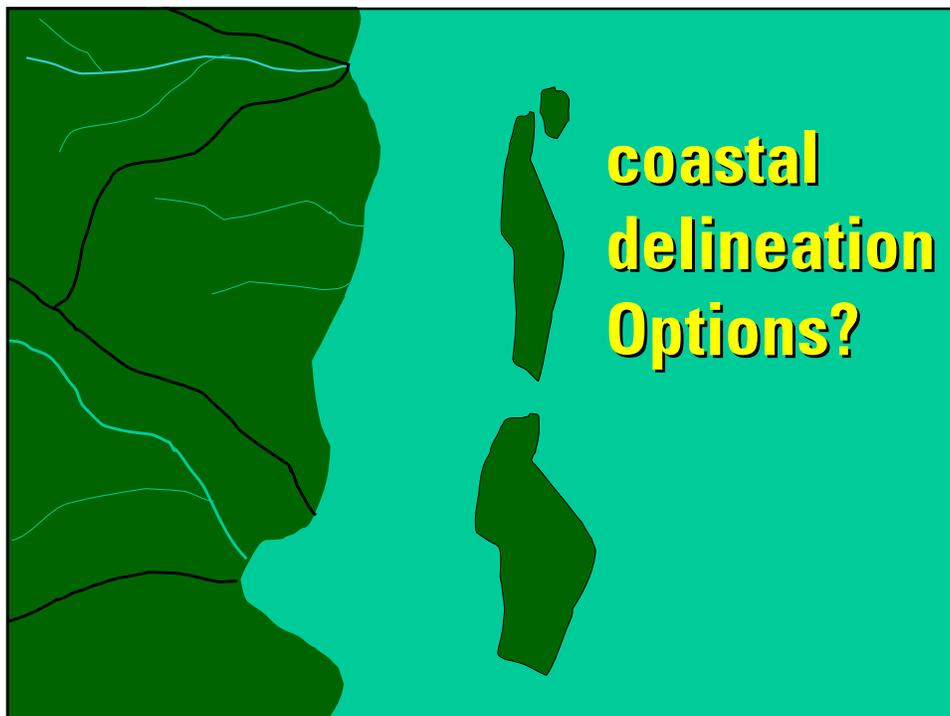


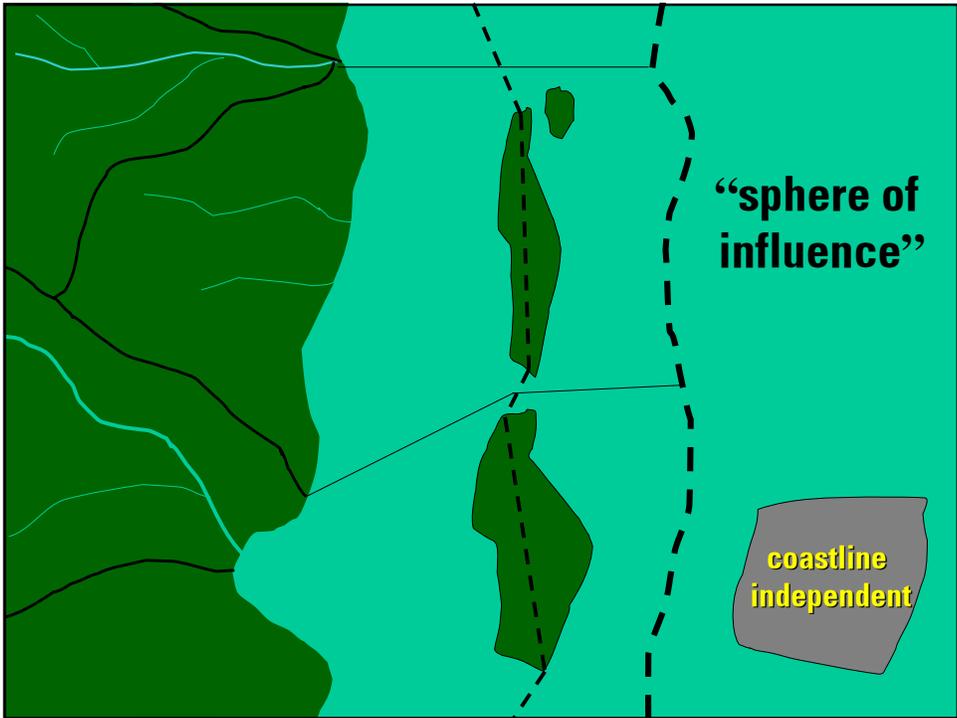
PROBLEMS IN COASTAL AREAS

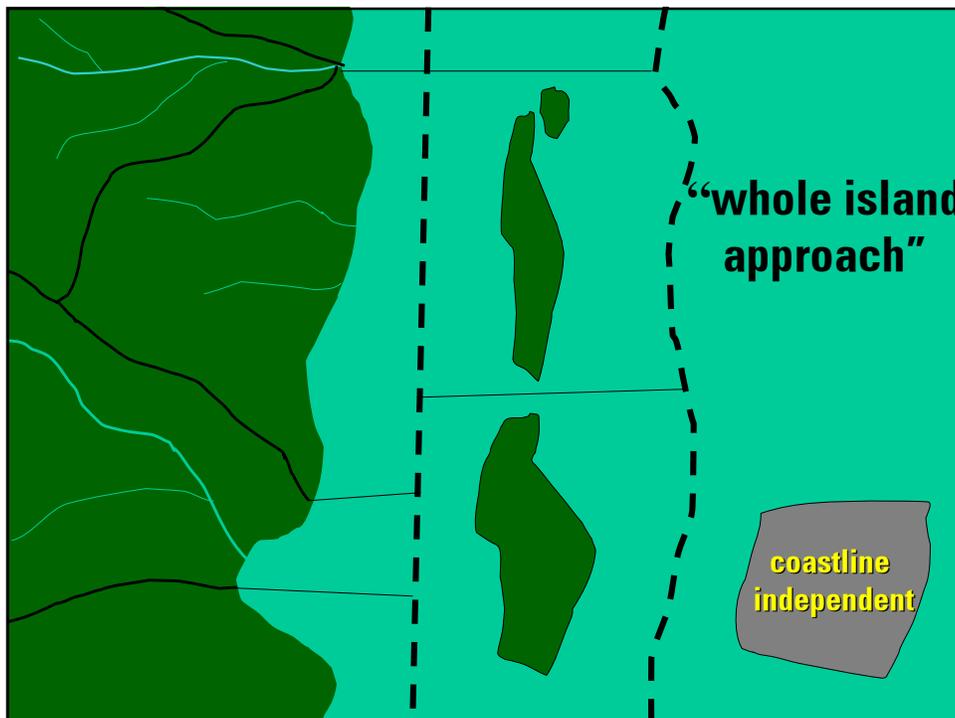
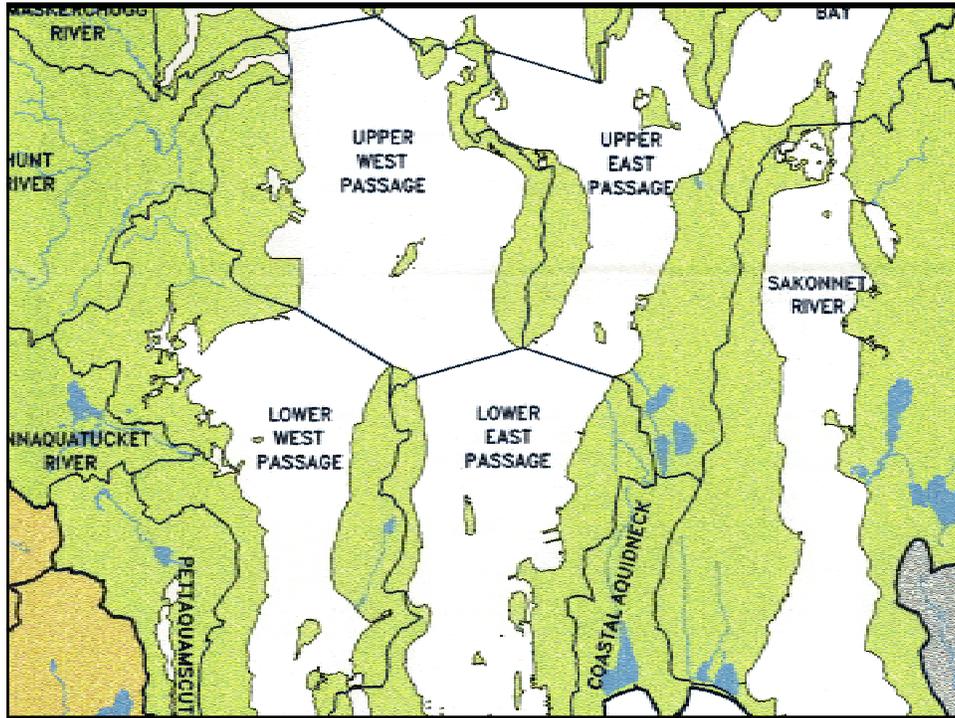


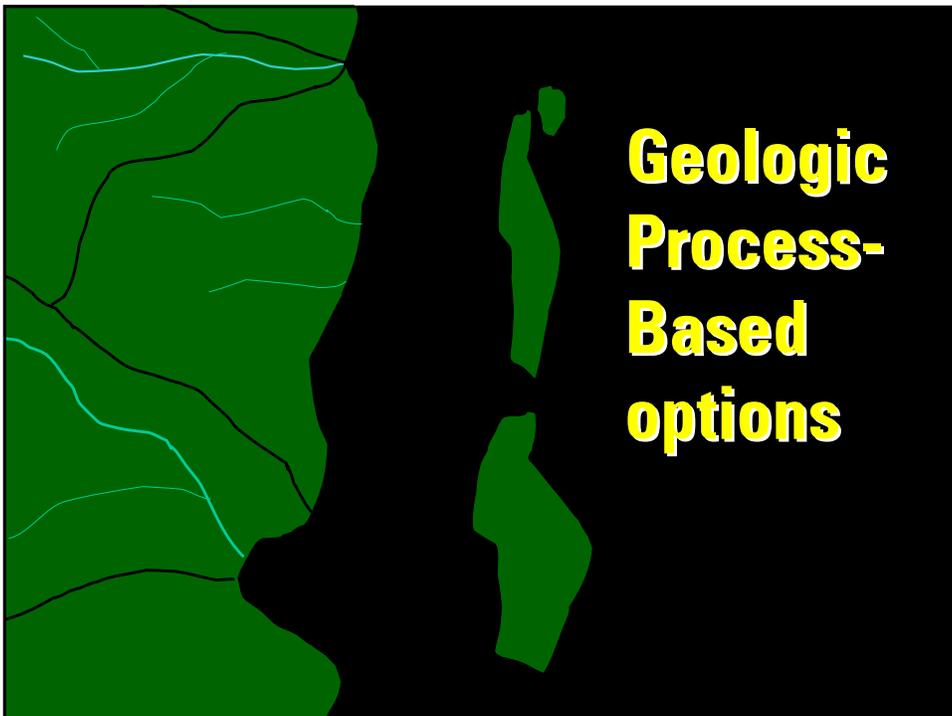
Issues to be addressed

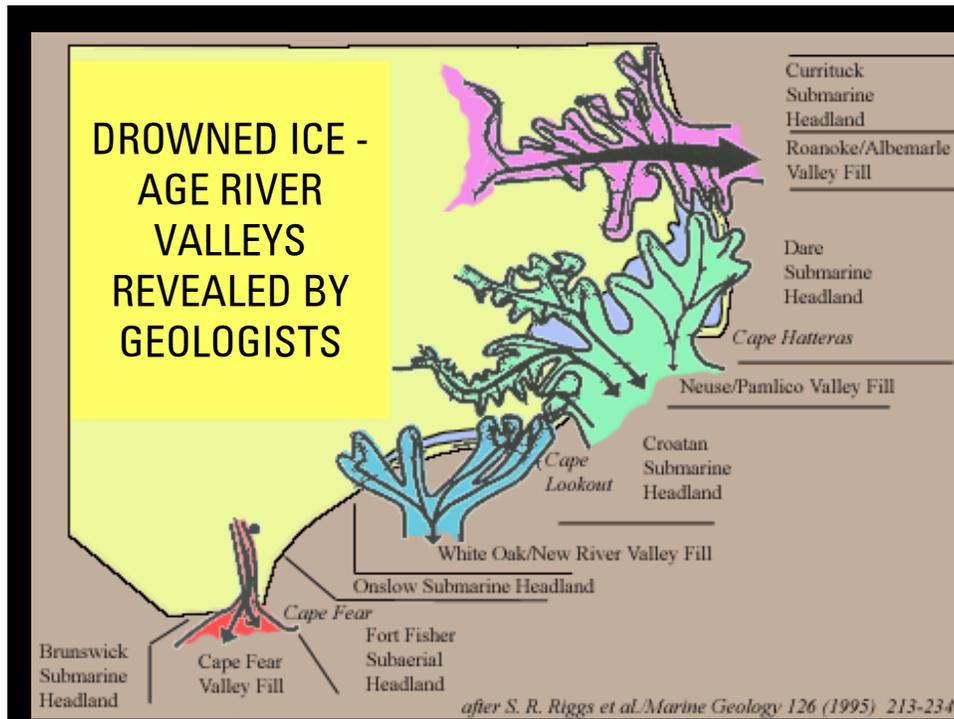
- **Coastline** – can watersheds be independent of coastline?
- **Estuarine systems** – no clear hydrologic controls of flow.
- **Deltaic coastlines** – streams do not converge to a point.
- **Barrier Islands** – are they their own hydrologic unit or defined by area of influence?
- **Island Groups** – (e.g. FL Keys, Pacific Islands, Aleutian, Tongas Nat. Forest)



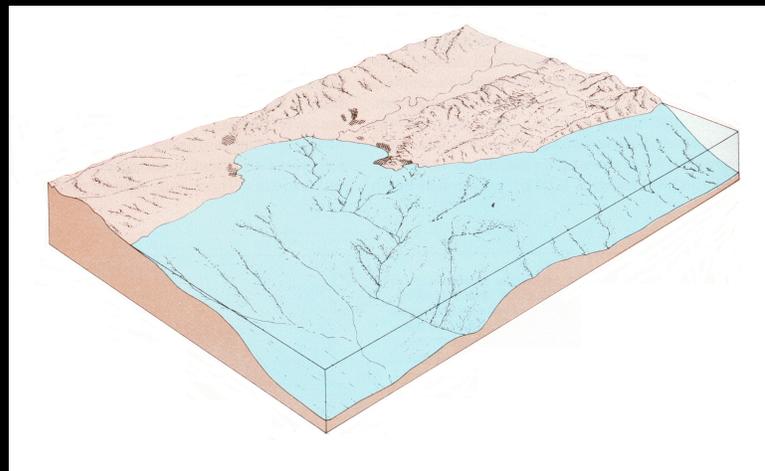








Geomorphology



NOAA/NOS Implementation

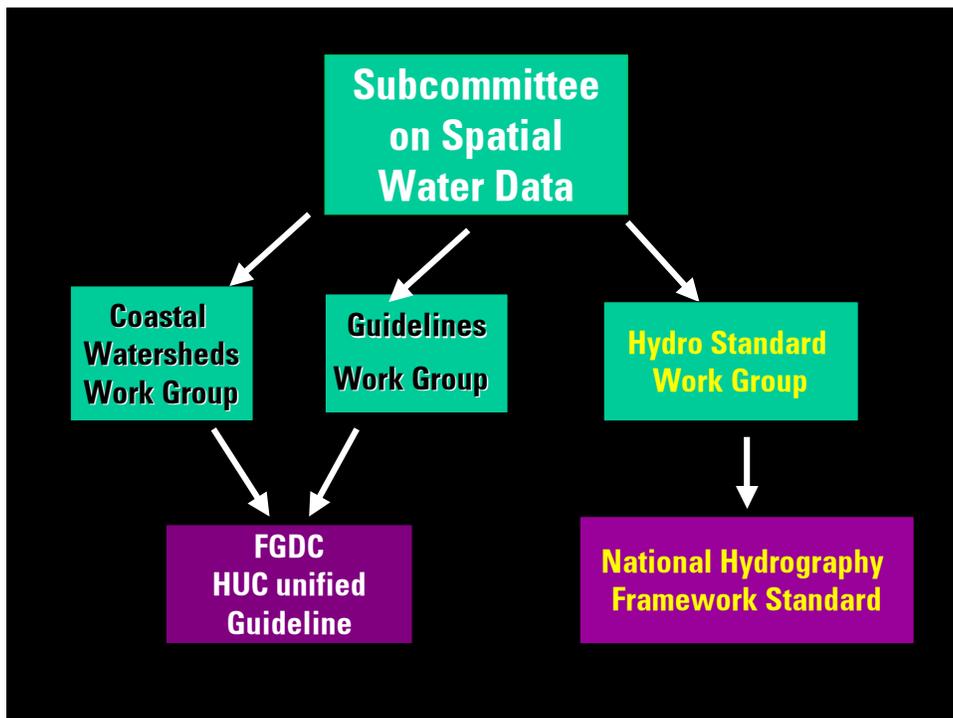
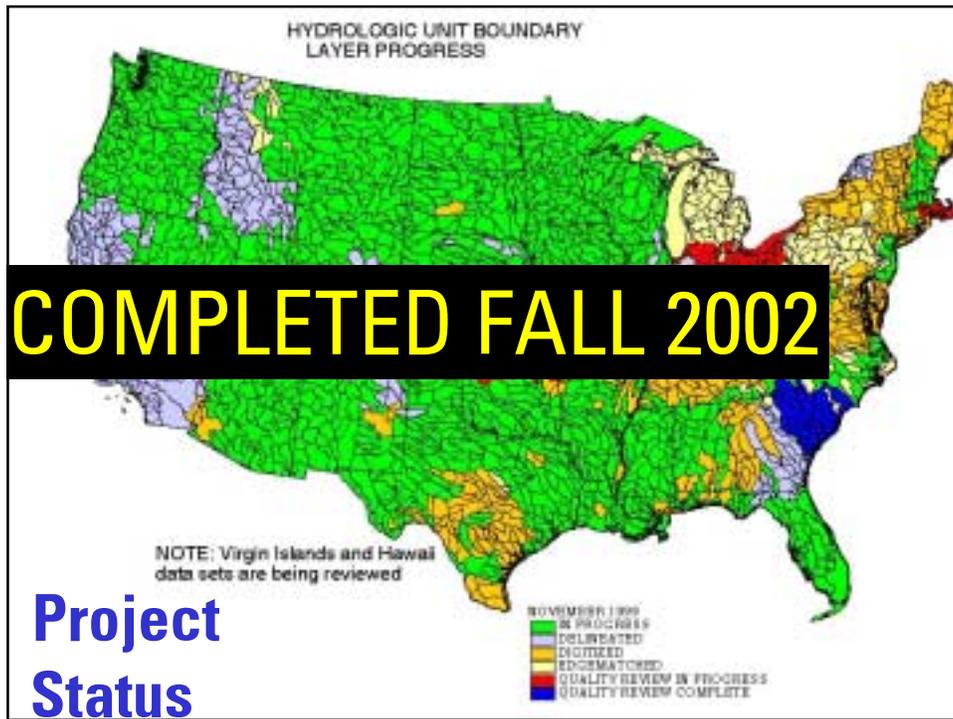
- **Pilots**
- **Coastal delineation guidance**
- **state/coast implementation**
 - **Assisting state groups**
 - **Workshops**
 - **Data and data manipulation**
 - **One-on-one with States**

Target Dates:

Jan'01 "draft" Unified Guideline into Subcommittee and FGDC review

Sept'01 "coastal guideline" addendum into review

Oct'01 submission as FGDC Standard Guideline



National Hydrography Framework Standard

- Develop formal **Content Standard** for Hydrography.
 - describe a **general model** (a data dictionary, definitions, relationships)
 - **application-independent,**
 - **supports international standards**
 - **facilitates the exchange of data.**

the end